

RAW SEQUENCE LISTING

EF8

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/568,160
Source: 1 FWD
Date Processed by STIC: 1/17/07

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/568,160

TIME: 12:27:31

Input Set : N:\efs\01_17_07

\10568160_efs\PatentInCHM017_SEQ_ID_NO_1_ST25.txt

Output Set: N:\CRF4\01172007\J568160.raw

3 <110> APPLICANT: Children's Hospital Research Foundation
 4 Brunskill, Eric W.
 5 Potter, S Steven
 6 Potter, S. Steven

8 <120> TITLE OF INVENTION: NPAS3 MUTANT MICE AND USES FOR SCREEINING AND TESTING
 THERAPIES

9 FOR SCHIZOPHRENIA AND RELATED NEUROLOGICAL DISORDERS

11 <130> FILE REFERENCE: CHM-017

13 <140> CURRENT APPLICATION NUMBER: US 10/568,160

14 <141> CURRENT FILING DATE: 2006-02-13

16 <150> PRIOR APPLICATION NUMBER: PCT/US04/26052

17 <151> PRIOR FILING DATE: 2004-08-11

19 <150> PRIOR APPLICATION NUMBER: US 60/494,197

20 <151> PRIOR FILING DATE: 2003-08-11

22 <150> PRIOR APPLICATION NUMBER: US 60/481,952

23 <151> PRIOR FILING DATE: 2004-01-26

25 <160> NUMBER OF SEQ ID NOS: 1

27 <170> SOFTWARE: PatentIn version 3.4

29 <210> SEQ ID NO: 1

30 <211> LENGTH: 20000

31 <212> TYPE: DNA

32 <213> ORGANISM: Mus musculus

35 <220> FEATURE:

36 <221> NAME/KEY: misc_feature

37 <222> LOCATION: (1175)..(1194)

38 <223> OTHER INFORMATION: n is a, c, g or t

40 <220> FEATURE:

41 <221> NAME/KEY: misc_feature

42 <222> LOCATION: (18631)..(18829)

43 <223> OTHER INFORMATION: n is a, c, g or t

45 <400> SEQUENCE: 1

46	agtgtcttaa	gacatggagg	gacccatggc	tccagctgca	tatgtagcag	aggatggcct	60
48	tatctagcat	caatgggacg	ggagggccct	tggtcctatg	gaggcttagt	gccccagcgt	120
50	agggaaaaat	gggggtgggt	gggtgggttg	gggagcatcc	tcatagaagc	aggggaaagg	180
52	gggataggat	aggagtttgc	aaagggggaa	agcaggaagg	ggaatagcac	ttgatata	240
54	aataaataaa	ataaccagt	caaatagata	gataaaaaaa	tcatatgagc	aaaactaaaa	300
56	gggaaaaaaa	gaaggaatgc	agacagttaa	attatacaga	tgtcctcctt	aacattagta	360
58	aggcatggca	tgtgtgtggt	ggtcacatga	tcataacttt	attttcacac	ttaagaatct	420
60	tcagacttgt	caaagcatgc	ttgtgtttt	ccaagtgagc	cgcagcagac	ttgaaagggt	480
62	taaacagttc	tttcactaag	ttgtgctttc	aagtgtttga	aatcacactt	gaagaaaatt	540
64	gaaagaaaaa	gtaaaatttc	ccttaattaa	aaaaaaaaag	tcattttgaa	tttgaattcc	600
66	aaagcaatag	agtttgcgat	ttgaagcaat	taatagcatc	accagaagcc	tgaaaatgga	660
68	gattttgttg	aatatttcat	taaagaatta	agctttttgt	aacaattatt	aggggaatctc	720

70 tacaggtaat tgtaaattaa acccagcttt atcagtgttg tagaagttca aaagacaaaa 780

RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/568,160

TIME: 12:27:31

Input Set : N:\efs\01_17_07

\10568160_efs\PatentinCHM017_SEQ_ID_NO_1_ST25.txt

Output Set: N:\CRF4\01172007\J568160.raw

```

72 cagaccatga catcttatgc ctgcagaggc atggtgatgc tctggtgaca atgacaggct      840
74 tgtgcccctt gccaaaggtc accttgtaaa agccactccc gctctctact ttgaatcctg      900
76 atggtaggaa tcagctatcc tgatttatct aggatttttc cacgtggagc acaagacatc      960
78 caacatccaa agaaggacct accagagcca aagtactacc ctgggttttag ggatggaaga    1020
80 ggacacaaac tcctaccccc tatcttacct gcaacgaaag agacatgatt catgatcaaa    1080
82 agcagctcgg attcagtagt ggatgggtag gtgtgagtc cctaccatcc ttagtaactg    1140
W--> 84 atactggcta actgcttccc tgctgataac tgtannnnnn nnnnnnnnnn nnnnagctag    1200
86 aaatgccagc acccccattt gtggggccag gaaagtctct ttagccaaag gtggccacct    1260
88 tagcttttct ctttgccctt cagcagcgat ccaaagcacc tttcaaatat ttggcagcag    1320
90 catcctctca atgtgtgctc acacctcctg ttacaattaa tggaagtgc atatgtgtgc    1380
92 tcaccaggag gagaaaggct ttatcccatg ttggacacag acccgtgac ctgaatctct    1440
94 ttctaaactt cagacctgag gagaacagta ctgggaattg ctgctttctc actacattag    1500
96 cgacttcaat ttctttttaa ttggagcctg caatccagat ccttgggaact tcagggggtg    1560
98 aacaatatca attaagatct agatgctttc taggaagtgc tagttcagag agtgcccttc    1620
100 tttccttctg tcttctttct ttctttcttt ctttctttct ttctttcttt ctttctttct    1680
102 tccttccttc cttccttcct tcctgtcttt ctgtcttttt tttttttttt gcttctttta    1740
104 acacagttgt ggccattcac aaaacacatg cagtggccta atgagttcat atttacttct    1800
106 gaggtttcac atttgcaaac cacactgctg ggaaaataag tgaagtgttt ctcaaccacc    1860
108 actgcgagct aacaggctta atgtacaggg cagataaata cttgaattgt caaaatcccc    1920
110 caacagtgc cagagccttc agatatagca tcttcccctt gttcaggaca ttcatttctc    1980
112 ccaagaattc tttttaatgt aggacttcaa tttatgttta agaactagta aactatagtg    2040
114 gtctgacagc cattcacact taattctgtg cattaaacca acagcattct tttctacaaa    2100
116 catccattgt taggacaatg ctcttagaca gaatttatga gaaatggaat tatgttacca    2160
118 aggagatagc atttactata atgaagagta gatcctggaa aatggccctt tttacagcag    2220
120 ctacagagcag agccacaaaa gcaattgatt ggtcttggca tttagtctta ttcagctgt    2280
122 gtcacccata gcttcaggag tgagaacact aatctaaagt gacatttctg ttctggcggg    2340
124 cttttctgcc ctgatgaaag caattacttc atccctaaat gataatttgc aggagtttca    2400
126 accactttaa ttgataattt tttgttgtt gttctgagtt caattgtgaa gtgattagct    2460
128 gatgtttaa atagggaattt aaggtgtgaa atatacaagc tgccccaagg taaagtgcta    2520
130 tttattgggt aaagagaaat tacttcataa agctgcaggt tttcccccca ttattgtgaa    2580
132 actggcagtt gtgtatgttg aagttgtagg ataaaaaaa ccaaagaaca aaacactttg    2640
134 attcacgaga ctatgggcac acagctaagc gcgtgatgaa tagcttggtc ttgttgtggt    2700
136 tcattcaagg gttatttgaa ccaaggtgaa cgctagtga aaggggctgg gcagactgat    2760
138 cagctttcct tattactgta ctaatgactc attctggagt gagagcctct tatttaaagt    2820
140 ggtaagaatg aaaaacgctc attggctaaa accaattaat ttaattatta agttcaaacg    2880
142 tacacaagac attttctgaa gatgatggga ggcattccga tgaatggctt taattactcg    2940
144 tctgatctac tttgtgctc aagtcaaaag ggtcatgatg atcccatcgg aaaatgcctt    3000
146 agcttaaaaa ccagaagcat gtctcttggt tttggtaett tacgaaacgt tagcaatcag    3060
148 atgttttttg acgctgctta gaagcaatca gtttcaatat tttcttacat gtggagacac    3120
150 agtggctcatg tcacatgtta aatttgaaaa ataaagcagg agtgaaggtc agactgattt    3180
152 agcacatcaa acagtctttg tcagccaagc ttaatataat ctgagtttgt ggaacaaatg    3240
154 aaattttgct gctgttacac tttgcttcca aacaaccatt acaactggtt tcatatattg    3300
156 tgtgtgcatc agaccatcaa gctgtgtgct tctactgacg tgttgctgog gcaatgatct    3360
158 acagtggcaa tctgccattt atataagggc aaaaatgtga tctatattta gttgtgaaat    3420
160 tggcctatta tactcctgat gtttacagag gctaacataa attaatgatg acagctatga    3480
162 gccgtgcatt agttaagcag cagagttctt acctgaact tgaagggtcc agttttaaca    3540
164 tctagtatag actaccctgc ttgcttcacg tgctaaatga agatttctga aatgattgcc    3600
166 gtctcttgag ctctgaaata cttccattgg tggactttgt tggtcacact ctcaccagg    3660
168 aatagtttcc tatccatttc tcaactgtac taccttgcat ttacatctat tctaaaatta    3720

```

RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/568,160

TIME: 12:27:31

Input Set : N:\efs\01_17_07

\10568160_efs\PatentinCHM017_SEQ_ID_NO_1_ST25.txt

Output Set: N:\CRF4\01172007\J568160.raw

```

170 caccctaaaag agcttattct gcagcaaacg gatttgcttg actttgaatt ctatgtgatg 3780
172 tcagtgtggg gagggctgtt ttactaattg taatgaagga aggaccagtg tgcttatggg 3840
174 gcctctattg tatggttttc ttgaaaggcc ctctcattca gctcatgtca gggcaagtgt 3900
176 aggtactgga gtagctgtgg actttaccat taactatggc cagagatctg acaagtgtgc 3960
178 aggtgttcaa aggttcatga gttaaaatgc tgaagccttt gatgaatttt tgatggctgc 4020
180 atttttaata caggtctacc ttcttccttt gaggtgcat ggcagattaa ttgataaata 4080
182 ggagtctgta gttctgggtc ctccaaagca aaacaagtag gaaaatccat aaaatcttgc 4140
184 ctgcctggct ccttagaagt accttaaaaa ggcaaaattt aaagcccttt cctctgctcc 4200
186 tttctgcctc tataggggga tagccaaacc ctgccatgct ctttcagaaa gactacatat 4260
188 tagattgtaa aactttccac aaagtattca aactgaggct tagtggcgag gtttccgtgg 4320
190 agaggggtaa cattggactg ataacatcaa tagcaaagga aatgaatcaa aacatttaca 4380
192 ttacaaaata cattttatct tgattattat taatttggtt gttatttaatt tttttacag 4440
194 tccagtggtt tatcttcacc cagctccccc ttctacccca ccccatctct aagaggatac 4500
196 ccccaacttc cactcccatc ccaccaggtc tccccactcc ctggggcctc tagtctctcg 4560
198 agggttaggt gcatcttctc tcaactgagtc aagaccagga agtcttctgc tgtgtatgtg 4620
200 tcagggaact catatcagct agtctatgct gcctggttgc tggctcagtg tctgagaggt 4680
202 ctccaggagtc aggattagtt gcgactgttg gtcttctctat agggctcgccc tctcctcag 4740
204 cttcttccag cttttcccta attcaaccac aggggttccc agcttctgtc cattggttag 4800
206 gtgtaagtat ctgcatctga gtctttcagc tgcttgtttg gcctcttgga gggcagtcac 4860
208 gctagtctca tgtttgtaag caccatag catcagtaac aatgtcaggc cttgaagtct 4920
210 ccccttgaga tggatcccaa gttgggcca tccccaacc tccctttcct cagtccttcc 4980
212 tccatttttg tccctgcagt tcttttagat aggaacaatt ctgggtcaga gtttttgact 5040
214 gtggaaagga aactccatcc cttcgcttga tgcctgtctt ttctactgga gatggacttt 5100
216 acaagttcac tctccctagt gtttggeett tcaactaagg tccctctctg agtccctgcg 5160
218 atgcctcacc tcccaggctc ctggtacatt ctagatggtc cattcttcca ttctgcttcc 5220
220 attctttctt ctgtccctca ggacttcaact cctgtttctc ctgccccgaa taccttctta 5280
222 tgttccccct cccccctccc tgtctcctct cccaaccacg cccatcctgg cttgtaagag 5340
224 catgtctctg aacagatcac tgcagaggaa gatagtgttg gtttattgtg tttccctggt 5400
226 gctcttctgt gattgttgct tatactttgt tgttgcctt gttgttgagg tttacagttg 5460
228 ttttagttca gtaataattt taaccattgt aatgacttcc caaaccaaaa ggaatcaatt 5520
230 ttgcatgtct agtgttgatc atactcaaaa gatattgctt ccttataatt taatgagtaa 5580
232 ccagttcaaa gtttgtaacc ttccctgtga atggataagc ccaataagtg attgatactc 5640
234 atagctagtt ccatgtgtca ggaaactgac aatgcccttt ctttaactgt gatttggttc 5700
236 ttctgtttcc tcagtttctg tattaataac agtctctcag tgtgacatga ctcttggtga 5760
238 ggagcttgca ggacagagtc attcctggtt gtatgagctc tccagggtcc tggatttgac 5820
240 ctccactaga cattcagatt agcaagcttt ggaagatatt ttgaaacagt cttacttcta 5880
242 agagagccta tgtgttcttt ataacttaaa attaccaaaa tgactatcac catttaaggt 5940
244 ttctgcaca tacttttcaa tcttcctgag taatctatgt ctccattata aatgagcact 6000
246 gtggacattc aaagaatcaa actagccatg tgaaattcaa ttagtctaac atcacatgac 6060
248 ttatacggta actataaaca ttctattaaa gcattatttc taaaaataa taatacttag 6120
250 tggcatcacc ccattctaca gattagaaaa cccaaggcat taaaattatc ttacatagt 6180
252 taataagtac cagagcaagg attaacacca aatattttga ctgaacattt cttgttcttc 6240
254 taataagaac tggaaatggt tgcttagtgt ttccctcagt tggggtgatt ggaaccattt 6300
256 gaaaatttga caattactta ctgatctctt gaaaaattaa cacagaaaca caaccttgg 6360
258 tatgattttt ggtaagaaa aaatgtatat gtatatagaa aaatgatgtc ttttgaactt 6420
260 atttgttgat cttgttattt gcttgatgat atcttctttg cagcacagga tggatcagtc 6480
262 accagataga gttgatactg tcacagctct tgctgatgat taatgggtcc cctggttctt 6540
264 ttatccagaa tccaaactga gctcagtaga gttctgggat ggctatatcc agaaagccaa 6600
266 taattatgga ctggaagttt tttcatgttt ttgatgggag agataggcac tgtggtattt 6660

```

RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/568,160

TIME: 12:27:31

Input Set : N:\efs\01_17_07

\10568160_efs\PatentinCHM017_SEQ_ID_NO_1_ST25.txt

Output Set: N:\CRF4\01172007\J568160.raw

268	tcctcctata	caaccaatat	atgctgtttc	tgcatttttag	aaatgcagcc	caaatgtctt	6720
270	gtctagaaca	aatataacag	aaacaaagt	tatttttaggt	tttaacatgg	tccttaattc	6780
272	aatttgagaa	ctgattacag	ctaggctcta	cttcataaag	ctgagcagag	gattaatccg	6840
274	caaagctgtg	ttattgtctt	aagatcttta	gtttcatcta	ttataccaga	gtctcaacag	6900
276	ccattataat	cctttgactg	tattttattg	ctgttgccct	caaaaccaat	tattacttat	6960
278	tatagacaca	gtgctgccat	tctgaaactc	ttctgaacta	tgggtgatgc	ataatgatgt	7020
280	gctgtgggag	tcatggaaac	cctatattat	taagataatg	gccaagaaca	tgacttcagt	7080
282	agaggggtct	attgtgtgtt	agagttgagg	gagctagtgt	gagaagggtg	caaagagaac	7140
284	agggaggtag	tgtaggagct	tatgaagggt	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	7200
286	tgtgtgtgtg	tgtacacgcg	cttggttaata	acattggtca	gtgctggcat	ggaaaagtaa	7260
288	gtgaagtata	tttagacaaa	gtgttcatac	atgtcagtat	ctatctattc	tccttcctcg	7320
290	aggctcaaa	gggtgtgtcc	caatcaacc	attggaagct	actagttggt	cttctaccat	7380
292	cttgtagttt	gcttctcctg	atgacattat	tttctacagt	tttaattgaa	ttatgtttta	7440
294	acattttgct	tattttttat	tgtaacctag	acaaagtatt	aaattcatat	ctatctatag	7500
296	gtaccatgta	taatattcag	cacatgtagg	cactgtataa	tatctaaatc	agattaaaca	7560
298	tttatctcct	taaaacttca	gcattttttg	atggaatctt	tcaaaatgct	ttcttcccat	7620
300	gtttttcttg	cactgccctt	tgttgctaga	tacagtcacc	acaccaggcc	tgtgtaccct	7680
302	gccactgttt	tcttcattcc	cagccaactt	taacttagtg	cccatccatc	aacctcttcc	7740
304	tcttcattcc	ccctctcct	agcatctcca	gccctcatga	ggattaattt	ttccccttgg	7800
306	tttattgaca	agcctattca	ttaatatcaa	tttcagaata	attgcttaat	catccacttt	7860
308	gcttttagttg	catggagaaa	tttctagtgt	aaatattagg	aatattaatt	agataatgaa	7920
310	tgaattcatt	tatgatcatt	tgggtgacaa	ggaaaattac	acataagatc	catgtaaagc	7980
312	tgccttccaa	attggcctcc	ctagtattga	cctagtgtga	aaatgagtc	ctgatccaaa	8040
314	attgaccata	atgtgcttta	ttgtcatgca	cagttaaaca	aaagaaactt	gaattagtta	8100
316	atgtattaaa	agttgaaact	ttcatataaa	aaatttagat	tctttttgaa	tctagaaatg	8160
318	gcactactgg	gattctggca	acatgagtgg	gccactcatg	tgctgaaatc	atgtgttttc	8220
320	tcttggttgg	ggtggttggc	cttcagttcc	ctggttttct	ttacttacta	aaagtccctt	8280
322	ccttctcctt	aaaggcccta	aaaacccctg	ctctagaact	tcatcataag	cacttactgc	8340
324	aacaagaaaa	tgtcagttta	accctcctc	gagagctgta	tttagttatt	agaacatagt	8400
326	aaagaaaagc	aataaactcc	aagcactgca	ccatcccctg	ctcatgtgta	gtgcaaacaa	8460
328	cctaaccaaa	ccgaaccaaa	ccaaatcaaa	ctgaatcata	acaaaacaaa	cgtggaaaat	8520
330	ccatggtatt	cctggcatag	cccacttagc	tgttgccagg	tgaactagct	gtactatgca	8580
332	aaggagagacc	caagatcttc	tgggtctaaga	tctttgcctg	gacccctggat	atacctacac	8640
334	tgtgcactat	attaatgcat	ctgtaactta	catagttttc	aataatctaa	tactaaacat	8700
336	ttgtagattc	taataaactg	atcacaatgt	tgggaagtat	gtgatgtaac	acaattttcc	8760
338	ttataagtta	gtcatgtttc	tgcctgaagt	tatcacctga	atcactttgc	aggacaaacg	8820
340	ctcattactt	aaatgatccg	aaatgatagc	attagttgcc	taatgcatac	ttattattaa	8880
342	ataagatatg	catgtatgca	cgcatacata	catattttgta	tgtattttatt	tactaaccac	8940
344	atgagcatat	gtgctgcttg	ggctattaac	ccagcaacta	ccatgcatgt	cttaaattaa	9000
346	gcagatatte	tgtgaagatg	tggggtatat	gaagagcatg	agttttttcca	ctgtaaacaa	9060
348	tccatggctg	ctataatgtg	gttcggaaga	ttcttcttct	cttttttattt	atggaaaatg	9120
350	gagccatagt	gctgaaacag	ttttgatttc	tttctctaca	cttcccttcc	tgcactctcc	9180
352	cctgttgctc	tttttccctt	ccgggaatcc	aggatatgga	ttgaaacatt	taaaatgtct	9240
354	ccgttcagta	atagatagtc	accagttatt	tttatgagtt	ccttgatgct	gcacatatga	9300
356	ccagtttag	ttatcactgg	ggtctgagct	ggaataacatt	gctcatcaga	tacaaagcag	9360
358	tgagagtggc	ttaggggagc	caggtttccc	atcagactct	cacataaggc	ttcggtggtg	9420
360	ccagatttgg	ctctcagcca	tgtgagccac	acttcaaaca	gaaatgcaca	tgaatagtta	9480
362	aagggaaatc	ctggattcaa	cctgttgctt	tctctgtgaa	gtaatatgtc	tataatgtct	9540
364	ataaatttta	ataaccacga	cagcttattt	ttcaacctaa	aactcatgct	atcaggaagt	9600

RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/568,160

TIME: 12:27:31

Input Set : N:\efs\01_17_07

\10568160_efs\PatentinCHM017_SEQ_ID_NO_1_ST25.txt

Output Set: N:\CRF4\01172007\J568160.raw

```

366 ttggctgggg gtgggtgggc gcagtgcatt ctctagtgtc tctgagactc tatctctatg 9660
368 ctaatgcagg ccccttgta tgaagttata gtgttctctt atcaaggaaac atcaccacct 9720
370 ttacaatct atattttcag tgtgaaagtg tggagatcct tgtagagggtc taagaacct 9780
372 ggagcattat ctgttgattc tgccaaagtg gcttactcta gtgtttacct ttgttctcca 9840
374 agatgataac tgaaacaaaa attacaaagt gtttcctttg gaggttaaag tttctagtgg 9900
376 taataaaagt tgaatgaagc aaatcttgag aatcagtata ggaacacaac cgtacaagtt 9960
378 gagacttaaa ctgcttatgg ctataacacc gtgcctcact tgtaagcctt gtgtcttaga 10020
380 aacaagggct gtatctcatt ctctgcacag ctggaagacg gaagtgttgt aacaagcaaa 10080
382 acacgatttt attagttata actatgtttg tgacaagtgg ccaccatagg cattacttga 10140
384 aattcatcta actatggctc ttgaattctg gattaatttt tgtctatttt ggggtgggaag 10200
386 gagatagaag ttaaaaatca gaatcacatg ttctaaagca ttctctacct tttgttttc 10260
388 agtttacaag cactgagaaa ggagaaatcc agagatgctg ctcgatcccg ccggggaaaa 10320
390 gaaaattttg agttctatga attggccaag ctgttgccctc ttctgcccgc catcaccagc 10380
392 cagctcgaca aggcattccat catccgactt acaattagtt atctcaagat gagagacttt 10440
394 gccaaccaag gggatcctcc atggaacctg aggatggaag gccctccacc aaacacctca 10500
396 gtaaaaaggta ggttttaggc cactgctttg tctggattat ggtggtctgt ctgtgtctct 10560
398 ggaatgaaat gttcaccagc atcctctctt cttttcctgc atatcaaac ctttaaaggg 10620
400 attcaaagt ggaaatctga actctgcacg agaaagacac catgtgaagg tgacataact 10680
402 ctcttctatt tctattttgt tttagaaaag tctgcccacc taaacattct tttacattaa 10740
404 ttaagatctt ataggagtca ggatgaaata attacatat gtgttatgat ttaggatgaa 10800
406 ataatttaca tatgtaaatg tgtggggatc atggctcata ggtaagagct aatgtgtttt 10860
408 gtgttaagtg aacaaaaaca gggagagagc aagacccaac cagagcaggt ggttttgaat 10920
410 tcatgacttt attgactttg aaaatcaatc catctattaa tttttcatgt ttctctatgg 10980
412 acacattagc tgaaacttat gaataataac atatatattg ttttcaaac ctttacatag 11040
414 ttattcttaa agttattttt aaatagtagg tctgcccctc tgatgattaa attttagaat 11100
416 tttcttggtt cctgaaactt ctaaaaattg agggcatttt tagtgttcaa atatgcatgg 11160
418 attaatgtat gtatatgtgg tattggccat tgattttctt ttcttaaggg tgattatttg 11220
420 tagtggatgg ccaaaaatct tgagattctc atgtcctaac atataaggag cctttgcaag 11280
422 catcaataaa aaacagacta aggaggtgta gataatctat cctgtaggca aaaggcagat 11340
424 taagtctctt ccttaagatt tatttttatt attttaattg tatgtatgta tatgtgtctc 11400
426 tgtggggcta tgtacatgta agtgggggtg ccctagaagg caagaggcct tggaccttc 11460
428 tggatctaga gtttcaggca gttgtaaatt tccagtgag ctggaaacca aactcagggtc 11520
430 ttcttaactg ataggacatc tctagctcta tttttttatt gtgggcttca gggtaagaca 11580
432 gggctcttatt atatagacct ggctgttagg gatctcactg tgcagaccag gttttcagac 11640
434 tcatggagat ctgcttatct ctgcctacca agtgctgggg ttaaagggtt atgccaccat 11700
436 gtccatctga aataattctt aggtgatgtc atattgccag ctaccactga aaaagtcctt 11760
438 gtagctttgg ctggtgaggt gctataacct tttatttgaa ttctgatcaa aatgaagcat 11820
440 ctattttgac cgtgattgtt tgtcattgca tgctaagagc tgtgatcaca catatgtgaa 11880
442 tcaacttagt tgcaaatccc taattacaag ccatgacctt agaaactctc tagtgctcag 11940
444 agtattccaa catgatgcca taataagaaa gctttgttgc atgcctattc ttatatatta 12000
446 agaataatat ataaacttat attaagggtg catacatagg gagatataca tagggatgtg 12060
448 tgaaaaataa gtgaatttta catataggcc tgactctttt ctttcagata ttttatgtat 12120
450 atgtaagcat tccagcagct gaaatctgat atttctagct gccaatattt tggataagaa 12180
452 agacagatgt catctgtact taagccgtgt gttcttagga gaaagggggg ttgacacaaa 12240
454 gtcccacttc taaccaagaa ggtgtttgca ttggatacca gctaggaaaag ggaaaatgag 12300
456 gtttttttgt tttgtttttt gttttttgtt tttttttctg aaggagtact actgagtata 12360
458 tcagcccaat gtggagaaac aactggccaa caaaaaatgg actccatgct tttgtgtgcc 12420
460 cccctcttgt tgtttgttta tctttttttt cttttttctt ttcttttgtt ttgaagttag 12480
462 atgggtaggg agttcaggga agaggaaaat tgattaaaat atatgaaaaa tattagataa 12540

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/568,160

DATE: 01/17/2007
TIME: 12:27:33

Input Set : N:\efs\01_17_07

\10568160_efs\PatentinCHM017_SEQ_ID NO 1_ST25.txt

Output Set: N:\CRF4\01172007\J568160.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186
Seq#:1; N Pos. 1187,1188,1189,1190,1191,1192,1193,1194,18631,18632,18633
Seq#:1; N Pos. 18634,18635,18636,18637,18638,18639,18640,18641,18642,18643
Seq#:1; N Pos. 18644,18645,18646,18647,18648,18649,18650,18651,18652,18653
Seq#:1; N Pos. 18654,18655,18656,18657,18658,18659,18660,18661,18662,18663
Seq#:1; N Pos. 18664,18665,18666,18667,18668,18669,18670,18671,18672,18673
Seq#:1; N Pos. 18674,18675,18676,18677,18678,18679,18680,18681,18682,18683
Seq#:1; N Pos. 18684,18685,18686,18687,18688,18689,18690,18691,18692,18693
Seq#:1; N Pos. 18694,18695,18696,18697,18698,18699,18700,18701,18702,18703
Seq#:1; N Pos. 18704,18705,18706,18707,18708,18709,18710,18711,18712,18713
Seq#:1; N Pos. 18714,18715,18716,18717,18718,18719,18720,18721,18722,18723
Seq#:1; N Pos. 18724,18725,18726,18727,18728,18729,18730,18731,18732,18733
Seq#:1; N Pos. 18734,18735,18736,18737,18738,18739,18740,18741,18742,18743
Seq#:1; N Pos. 18744,18745,18746,18747,18748,18749,18750,18751,18752,18753
Seq#:1; N Pos. 18754,18755,18756,18757,18758,18759,18760,18761,18762,18763
Seq#:1; N Pos. 18764,18765,18766,18767,18768,18769,18770,18771,18772,18773
Seq#:1; N Pos. 18774,18775,18776,18777,18778,18779,18780,18781,18782,18783
Seq#:1; N Pos. 18784,18785,18786,18787,18788,18789,18790,18791,18792,18793
Seq#:1; N Pos. 18794,18795,18796,18797,18798,18799,18800,18801,18802,18803
Seq#:1; N Pos. 18804,18805,18806,18807,18808,18809,18810,18811,18812,18813
Seq#:1; N Pos. 18814,18815,18816,18817,18818,18819,18820,18821,18822,18823
Seq#:1; N Pos. 18824,18825,18826,18827,18828,18829

VERIFICATION SUMMARY

DATE: 01/17/2007

PATENT APPLICATION: US/10/568,160

TIME: 12:27:33

Input Set : N:\efs\01_17_07

\10568160_efs\PatentinCHM017_SEQ_ID_NO_1_ST25.txt

Output Set: N:\CRF4\01172007\J568160.raw

L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1140

M:341 Repeated in SeqNo=1